# Table of Contents: Volume 25 (1997)

**Number 1**


Improved Accuracy in Gradient-Based Optical Flow Estimation ..... *Jonathan W. Brandt* 5

Recognizing Facial Expressions in Image Sequences Using Local Parameterized Models of Image Motion ..... *Michael J. Black and Yaser Yacoob* 23

Multi-Level Shape Representation Using Global Deformations and Locally Adaptive Finite Elements ..... *Dimitris Metaxas, Eunyoung Koh and Norman I. Badler* 49

Point Signatures: A New Representation for 3D Object Recognition ..... *Chin Seng Chua and Ray Jarvis* 63


**Number 2**


Affine Morphological Multiscale Analysis of Corners and Multiple Junctions ..... *Luis Alvarez and Freya Morales* 91

Learning Recognition and Segmentation Using the Cresceptron ..... *John (Juyang) Weng, Narendra Ahuja and Thomas S. Huang* 105

Recognition Using Region Correspondences ..... *Ronen Basri and David W. Jacobs* 141

3-D Scene Data Recovery Using Omnidirectional Multibaseline Stereo ..... *Sing Bing Kang and Richard Szeliski* 163


**Number 3**


Ziplock Snakes ..... *Walter M. Neuenschwander, Pascal Fua, Lee Iverson, Gábor Székely and Olaf Kübler* 191

A Framework for Uncertainty and Validation of 3-D Registration Methods Based on Points and Frames ..... *Xavier Pennec and Jean-Philippe Thirion* 203

View-Invariant Analysis of Cyclic Motion ..... *Steven M. Seitz and Charles R. Dyer* 231